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9 Sheets of Drawings with 16 Figs.

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Sheet 1 of 9

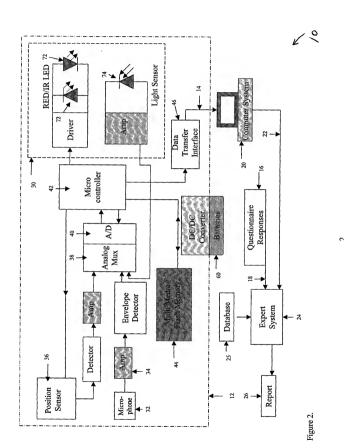
SLEEP ARNEA RISK EVALUATION

ARES Expert Software: ARES Questionnaire ≽Age, Sex, Ht/Wt, Neck Size ≽Hypertension 1. Analyzes physiological data 2. Integrates questionnaire >Snoring >Daytime Drowsiness response data 3. Compares to database >Alcohol Use 4. Generates report Physio-Docking logical Station Monitor Data Transmissio **Overnight Recordings** >Oxygen Saturation >Heart Rate Snoring Sounds Head Position

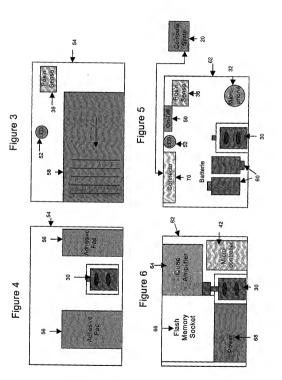
Figure 1.



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SLEEP APNEA RISK EVALUATION



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Figure 7.

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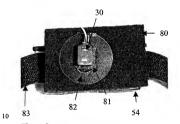


Figure 8.

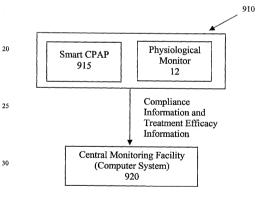


Figure 9

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15



910

Figure 10

. 5

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SLEEP APPEA RISK EVALUATION

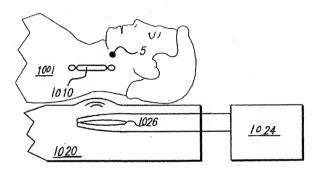


Figure 11

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SLEP APNEA RISK EVALUATION

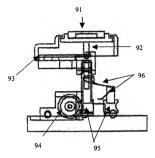


Figure 12. Illustration of SpO2 active pressure device.

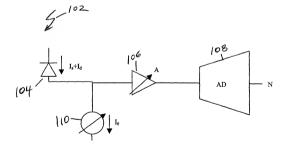


Figure 13. Diagram of SpO2 Measuring Circuit

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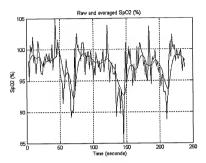


Figure 14. Illustration of the raw SpO2 signal and after application of the three level smoothing algorithm.

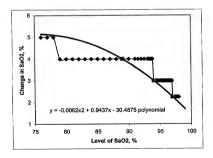


Figure 15: Curve of the regression line for calculating required magnitude of desaturation based on the stepped approach.

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Figure 16. Physiological monitor in alternative embodiment with airflow sensor.